
ATTACHMENT 2-2

- 10. PERCENT INTERSTATE USAGE:** Enter the Percent Interstate Usage (PIU). This is reported/entered by LATA, End Office, Feature Group for Service Types 700, 800, T80, 900, 950, TER, 64O, 64T and O/T.
- 11. PERCENT TANDEM SIGNALING FACTOR:** Enter the percentage tandem signaling factor (PTS). This is the percentage of usage which is routed to a tandem signaling customer tandem. This factor is entered by LATA, Feature Group and Service Type. A PTS is accepted for the FGD service type of TAN in all states.

END OFFICE LEVEL REPORTING

(5A) ACNA: _____ (5B) PON: _____

[illegible]

ATTACHMENT 3-1

CUSTOMER PROVIDED FACTOR REPORT

**BILLING ACCOUNT NUMBER (BAN) REPORTING
EXPLANATION OF REPORT**

1. **PAGE __ OF __:** Enter the page number and the total number of pages submitted.
Example: PAGE 1 of 3.
2. **DATE:** Enter the date the report is prepared.
3. **ORIGINATOR:** Enter the name of the person preparing the report.
4. **TELEPHONE NUMBER:** Enter the telephone number (including the Area Code) of the Originator.
- 5A. **ACNA:** Enter the three (3) digit alpha code.
- 5B. **PON :** Enter the Purchase Order Number of the associated ASR that modified the facility traffic.
6. **LATA CODE:** Enter the LATA CODE, three (3) digit numeric code.
7. **BILLING ACCOUNT NUMBER:** Enter the Billing Account Number of the Feature Group.
8. **FEATURE GROUP:** Enter A and/or B in indicate the Feature Group.
9. **SERVICE TYPE:** The service type of O/T has been re-populated.

Originating & Terminating MTS Usage FGA & B = O/T
10. **PERCENT INTERSTATE USAGE:** Enter the Percent Interstate Usage (PIU). This is reported/entered by LATA, Feature Group and Billing Account Number for the Service Type O/T.

CUSTOMER PROVIDED FACTORS REPORT

BILLING ACCOUNT NUMBER LEVEL REPORTING

(5A) ACNA: _____ (5B) PON: _____

[illegible]

ATTACHMENT 4-1

CUSTOMER PROVIDED FACTOR REPORT

FACILITY REPORTING
EXPLANATION OF REPORT

1. **PAGE __ OF __:** Enter the page number and the total number of pages submitted.
Example: PAGE 1 of 3.
2. **DATE:** Enter the date the report is prepared.
3. **ORIGINATOR:** Enter the name of the person preparing the report.
4. **TELEPHONE NUMBER:** Enter the telephone number (including the Area Code) of the Originator.
- 5A. **ACNA:** Enter the three (3) digit alpha code.
- 5B. **PON :** Enter the Purchase Order Number of the associated ASR that modified the facility traffic.
6. **LATA CODE:** Enter the LATA CODE, three (3) digit numeric code.
7. **BILLING ACCOUNT NUMBER:** Enter the Billing Account Number of the Facilities.
8. **FACILITY CIRCUIT IDENTIFICATION:** Enter the facility circuit identification of the associated EF and/or DT.
9. **SERVICE TYPE:** Enter a code for the type of service.

Entrance Facility = EF
Direct Trunked Transport = DT
10. **PERCENT INTERSTATE USAGE:** Enter the Percent Interstate Usage (PIU). This is reported/entered by LATA, Facility Circuit Identification and for the Service Type.

FACILITY LEVEL REPORTING

(3) ORIGINATOR: _____ (4) TELEPHONE NO. _____

(5A) ACNA: _____ (5B) PON: _____

[illegible]

ATTACHMENT 5-1

CUSTOMER PROVIDED FACTOR MATRIX

**FACTOR TO SERVICE TYPE
ARKANSAS**

SVC TYPE	700	800	900	950	ACI	TAN	TER	T80	64O	64T	O/T	DLC	DIR	SX	EF	DT
PIU	Y	Y	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PCL	Y	Y	Y	N	Y	N	N	N	N	N	N	N	N	N	N	N
PTS	N	N	N	N	N	Y	N	N	N	N	N	N	N	N	N	N

NOTE: PIIL, IPCL and PCC are not applicable in Arkansas.

MISSOURI

SVC TYPE	700	800	900	950	ACI	TAN	TER	T80	64O	64T	O/T	DLC	DIR	SX	EF	DT	VAL	CNM	OLN
PIU	Y	Y	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PCL	Y	Y	Y	N	Y	N	N	N	N	N	N	N	N	N	N	N	N	N	N
PIIL	N	Y	Y	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
PTS	N	N	N	N	N	Y	N	N	N	N	N	N	N	N	N	N	N	N	N

NOTE: IPCL and PCC are not applicable in Missouri. PIIL will age off the data base after 3 months.

ATTACHMENT 5-2

OKLAHOMA

SVC TYPE	700	800	900	950	ACI	TAN	TER	T80	64O	64 T	O/T	DLC	DIR	SX	EF	DT
PIU	Y	Y	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PCL	Y	Y	Y	N	Y	N	N	N	N	N	N	N	N	N	N	N
PIIL	N*	Y	N	N	N	N	N	N	N	N	N	N	N	N	N	N
PCC	N	Y	N	N	N	N	N	N	N	N	N	N	N	N	N	N
PTS	N	N	N	N	N	Y	N	N	N	N	N	N	N	N	N	N

NOTE: IPCL is not applicable in Oklahoma.

NOTE: N* is applicable only to AT&T's 700 EasyReach service.

PIIL and PCC will age off the data base after 3 months.

KANSAS

SVC TYPE	700	800	900	950	ACI	TAN	TER	T80	64O	64T	O/T	DLC	DIR	SX	EF	DT
PIU	Y	Y	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PCL	Y	Y	Y	N	Y	N	N	N	N	N	N	N	N	N	N	N
IPCL	Y	Y	Y	N	N	N	N	N	N	N	N	N	N	N	N	N
PTS	N	N	N	N	N	Y	N	N	N	N	N	N	N	N	N	N

NOTE: PIIL and PCC are not applicable in Kansas.

ATTACHMENT 5-3

TEXAS

SVC TYPE	700	800	900	950	ACI	TAN	TER	T80	64O	64T	O/T	DLC	DIR	SX	EF	DT
PIU	Y	Y	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PCL	Y	Y	Y	N	Y	N	N	N	N	N	N	N	N	N	N	N
IPCL	Y	Y	Y	N	N	N	N	N	N	N	N	N	N	N	N	N
PTS	N	N	N	N	N	Y	N	N	N	N	N	N	N	N	N	N

NOTE: PIIL and PCC are not applicable in Texas.

ATTACHMENT 5-3

CUSTOMER PROVIDED FACTOR MATRIX

SERVICE TYPE TO FEATURE GROUP

SERVICE TYPE	APPLIES TO FEATURE GROUP							APPLIES TO FACILITY AND ASSOCIATED MUX
	A Q	B	C	D	G	R		
700			X	X				
800				X				
900		X	X	X				
950				X				
ACI		X	X	X				
TAN				X				
TER			X	X				
T80			X	X				
640				X				
64T				X				
O/T	X	X(1)						
DLC					X			
DIR						X		
EF								X
DT								X
VAL							X	
CNM							X	
OLN							X	
SX	APPLIES TO THE REAL ESTATE ACCOUNT							

X = Customer Provided Factor is applicable for that Traffic Type for that Feature Group.

NOTE (1) O/T applies to all originating and terminating usage for Feature Group B with the exception of 900 usage. 900 usage for Feature Group B requires its own PIU factor.

ATTACHMENT 5-4

CUSTOMER PROVIDED FACTOR MATRIX

DEFINITIONS

SERVICE TYPE	DESCRIPTION
700	Originating 700 traffic
800	Originating 800 NPAS
900	Originating 900 traffic
950	Feature Group D with 950 access
ACI	Originating ACIS traffic
TAN	Originating Percent Tandem Signaling traffic for Tandem Signaling Provider
TER	Terminating MTS traffic
T80	Terminating 800 traffic
64O	Multi64-CCC originating traffic
64T	Multi64-CCC terminating traffic
O/T	All originating and terminating traffic
DLC	DirectLine Custom
DIR	Directory Assistance
EF	Entrance Facility and associated Multiplexer
DT	Direct Trunked Transport and associated Multiplexer
SX	Expanded Interconnection Cross Connect and Switched Transport Interface
VAL	LIBD Validation Services
CNM	LIBD Calling Name Query (CNAM)
OLN	LIBD One Line Number Screening (OLNS)

APPENDIX LIDB

Appendix LIDB

AGREEMENT FOR THE PROVISION OF DATA BASE ADMINISTRATION AND LINE INFORMATION DATA BASE (LIDB) STORAGE

This Appendix, between SWBT and LSP sets forth the terms and conditions upon which SWBT will provide data base administration to store LSP's line/billing records in SWBT's Line Information Data Base (LIDB).

WHEREAS, SWBT owns and maintains a Line Validation Administration System (LVAS) that provides facilities for adding, deleting, and changing information in LIDB; and

WHEREAS, SWBT maintains LIDB for various purposes, including the validation of alternately billed service (ABS) requests and the provision of other services; and

WHEREAS LSP desires to have SWBT use LVAS to administer LSP's line information records for the provision of services set forth in the exhibits attached to this Appendix; and

WHEREAS SWBT is willing to provide, where equipment, processing capability and hardware configurations permit, such LVAS services and LIDB storage for LSP; and

WHEREAS, SWBT owns and maintains a Sleuth System that provides facilities for ABS fraud monitoring; and

WHEREAS LSP desires SWBT to use its Sleuth System for ABS fraud monitoring of its telecommunications traffic.

NOW, THEREFORE, in consideration of the mutual promises and undertakings made, the parties agree as follows:

I. Definitions

As used herein and for the purpose of this Appendix, the following terms shall have the meanings set forth below:

- A. Alternate Billing Services (ABS) - A service that allows end users to bill calls to accounts that may not be associated with the originating line. There are three types of ABS calls: calling card, collect and third number billed calls.
- B. Billed Number Screening (BNS) - A process which utilizes a database to determine

specific characteristics and/or end user preferences with respect to a billed number.

- C. Calling Card Service (CCS) - A service which enables a calling customer to bill a telephone call to a calling card number with or without the help of an operator.
- D. Data Base - An integrated collection of related data. In the case of the LIDB, the data base is the line number and related line information.
- E. Data Base Administration Center (DBAC) - The LIDB input center where the LVAS facility and administrative personnel are currently located.
- F. Exchange - For the purpose of this Appendix, a specific NPA-NXX combination.
- G. Line Validation Administration System (LVAS) - An off-line administrative system, used by SWBT to add, delete and change information in LIDB.
- H. Line Information Data Base (LIDB) - The line information database, which is an ANSI SS7 database system, functions as a centralized repository for data storage and retrieval. LIDB supports validation and recording of ABS requests. LIDB also supports storage, retrieval and recording capabilities for other information that can be associated with an end user's line. Examples of such information are, or are expected to be, originating screening information, ZIP code data and calling name.
- I. Personal Identification Number (PIN) - A confidential four digit code number provided to a calling card customer to prevent unauthorized use of his/her calling card number. The PIN is stored in the LIDB for those line numbers that have an associated calling card.
- J. Response - A single response in a set of predefined expected responses to a request for information contained in a query from a computer processor.
- K. Toll Billing Exception (TBE) - A LIDB option that allows end users to restrict third number billing or collect calls to their lines.
- L. Sleuth - An off-line administration system that SWBT uses to monitor suspected occurrences of ABS-related fraud. Sleuth uses a systematic pattern analysis of query message data to identify potential incidences requiring fraud investigation. Detection parameters are based upon vendor recommendations and SWBT's analysis of collected data and are subject to change from time to time.
- M. Translation Type - A code in the Signaling Connection Control Point (SCCP) of the

SS7 signaling message. Translation Types are used for routing LIDB queries. Signal Transfer Points (STP's) use Translation Types to identify the routing table used to route a LIDB query. All LIDB queries against the same exchange and Translation Type are routed to the same LIDB.

II. Responsibilities

A. SWBT shall:

1. Input information provided by LSP into LIDB for the NPA-NXX's set forth in Exhibit 1, NPA-NXX's TO BE ADMINISTERED, attached hereto and made a part hereof. The information to be provided by LSP includes, but is not limited to, Calling Card Service information, Toll Billing Exception information (such as restrictions on collect and third number billing), and class of service information, as well as any information needed by SWBT to provide the services being requested.
2. Provide the functionality needed to perform certain query/response functions on a call-by-call basis for the line / billing records of LSP that reside in SWBT's LIDB. Those query / response functions SWBT will perform are set forth in the Exhibits.
3. SWBT will provide LSP with an alert notification, by fax, or another mutually agreed upon format, when SWBT's Sleuth system indicates probability of a fraud incidence.
4. Provide once annually, on a mutually agreed upon date via paper or tape records, a listing of LSP subscriber line number information residing in LVAS for audit purposes.
5. Determine for billing purposes the number of access lines that are administered for each NPA-NXX for which SWBT performs the database administration function on behalf of LSP. This quantification of access lines administered will be prepared after the initial load of data is complete and subsequently on the first business day of each calendar year.
6. Provide upon written request, such data as is reasonably necessary to verify billing charges for data base administration update functions. This information will be provided in standard SWBT LVAS report formats. Subject to paragraph II.B. below.

7. Provide such data, as is reasonably necessary, to enable the Independent Billing Information System (IBIS) billing statements to be substantiated for query volumes of LSP line billing records that reside in SWBT's LIDB. This data will be provided in standard Exchange Message Record (EMR) formats.

B. LSP shall:

1. Furnish, prior to the initial LVAS load and as requested by SWBT thereafter, the following forecast data: the number of working line numbers to be established; the average number of monthly changes to these records; the number of busy hour queries, by query type; and the number of annual queries by query type. If SWBT, at its discretion, determines that it lacks adequate storage, or processing capability, prior to the initial loading of LSP information, SWBT will notify LSP of its intent to not provide to it the Services under this Appendix and this Appendix will be void.
2. Should the quantity of LSP's access lines change by more than 15% from the beginning of the calendar year, LSP shall report the updated access lines information to SWBT within 30 days of such change so SWBT can perform accurate billing.
3. Furnish all the line/billing records in a format required by SWBT to establish records in LIDB for all working line numbers, not just line numbers associated with calling card PIN or Toll Billing Exceptions (TBE).
4. Inform SWBT of any necessary changes to be made in such records. LSP will keep these records current using reporting forms, formats and procedures which are acceptable to SWBT as set forth below:
 - (a) MANUAL MEDIA - Paper records received at the DBAC to be input into LVAS by a DBAC clerk. This option is limited to those companies with 1,000 Access Lines, or less. This option is available for both initial line information load and ongoing service order updates.
 - (b) DIAL-IN MEDIA - LVAS is directly accessed via a dial-up terminal or personal computer with dial-up/dial back capabilities compatible with SWBT's LVAS hardware and software. This option is available for both initial data load and ongoing updates.
 - (c) FILE TRANSFER MEDIA - Files received at a SWBT-designated

computer retrieval, by LVAS. SWBT and LSP will agree upon the file transfer protocol. This option is available for both initial data loading and ongoing updates.

- (d) TAPE MEDIA - Load information, recorded on nine-track tapes and received at a designated SWBT location for input in LVAS. LSP will format the nine-track tapes, as specified in GR-446-CORE, Issue 2, June 1994, as revised. LSP will provide exchange records (NPA-NXX) and line records on separate tapes. This option is limited to initial load only.
- 5. Verify to SWBT, once annually, line information data residing in LVAS by reviewing the listing of line information data provided in accordance with Section II, A.4 preceding. LSP will provide to SWBT all additions, deletions, and corrections resulting from its verification on, or before, the fourteenth business day following its receipt of line information verification reports produced by SWBT for audit purposes.
- 6. Provide SWBT with a contact name, and fax number for SWBT to fax alerts from SWBT's Sleuth System.
- 7. Pay SWBT the amount billed for the services rendered, in accordance with Sections IV and V, detailed below.
- 8. Be willing to bill the appropriate charges to end users, on behalf of third parties who query LIDB and receive a response validating the end user's willingness to accept the charges for the underlying call.

III. Methods and Practices

With respect to all matters covered by this Appendix, each party will adopt and comply with SWBT standard operating methods and procedures and will observe the rules and regulations which cover the administration of LVAS service and the Sleuth System, as set forth in SWBT practices. The parties acknowledge that those practices may be changed by SWBT from time to time.

IV. Basis of Compensation

Compensation to SWBT for LVAS service shall be based upon the rates set forth in Exhibit II, BASIS OF COMPENSATION, attached hereto and made a part hereof. These rates will apply for _____ years from the service effective date for each exchange. After _____ years, SWBT may change the rates upon seventy-five (75) days' notice. SWBT may first give such notice seventy-five (75) days before the end of the third year.

V. Monthly Billing

Billing statements hereunder will be rendered monthly by SWBT and remittance in full will be made to SWBT within thirty (30) days of the billing date.

VI. Liability

- A. SWBT shall not be liable for any losses or damages arising out of errors, interruptions, defects, failures, or malfunction of LVAS, including any and all associated equipment and data processing systems, except such losses or damages caused by the sole negligence of SWBT. Any losses or damage for which SWBT is held liable under this Appendix shall in no event exceed the amount of charges made for LVAS during the period beginning at the time SWBT receives notice of the error, interruption, defect, failure or malfunction to the time service is restored.
- B. SWBT shall not be liable for any losses or damages arising out of SWBT's administration of Sleuth.
- C. SWBT SHALL NOT BE LIABLE IN ANY EVENT FOR ANY SPECIAL, INDIRECT, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES RESULTING FROM, OR ARISING OUT OF, OR IN CONNECTION WITH, THIS APPENDIX.
- D. LSP agrees to release, indemnify, defend, and hold harmless SWBT from any and all claims, demands, or suits brought by a third party against SWBT, directly or indirectly, arising out of SWBT's provision of service under this Appendix.

VII. Disclaimer of Warranties

SWBT MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR INTENDED OR PARTICULAR PURPOSE WITH RESPECT TO LVAS SERVICE, LIDB OR THE SLEUTH SYSTEM. ADDITIONALLY, SWBT ASSUMES NO RESPONSIBILITY WITH REGARD TO THE CORRECTNESS OF THE DATA SUPPLIED BY LSP WHEN THIS DATA IS ACCESSED AND USED BY A THIRD PARTY.

VIII. Mutuality

LSP agrees that to the extent it offers the type of services covered by this Appendix to any company, that should SWBT request such services, LSP will provide such services to SWBT under terms and conditions comparable to the terms and conditions contained in this Appendix.

APPENDIX LIDB

EXHIBIT I

EXCHANGES TO BE ADMINISTERED

SWBT shall provide Line Validation Administration System (LVAS) services for the following LSP exchanges:

EXCHANGE NAME

NPA NXX

APPENDIX LIDB

EXHIBIT II

BASIS OF COMPENSATION

COMPENSATION :

To determine compensation to SWBT for Data Base Administration Services provided, the following rates will apply (rate structure has flat rate charge, plus an additional charge per 100 access lines):

<u>UPDATED MEDIA USED</u>	<u>INITIAL LOAD</u>	<u>ONGOING UPDATES</u>
A. Manual (\leq 1,000 Line) Charge per 100 access lines	As stated in Appendix PRICING SCHEDULE	As stated in Appendix PRICING SCHEDULE
B. File Transfer Charge per 100 access lines	As stated in Appendix PRICING SCHEDULE	As stated in Appendix PRICING SCHEDULE
C. Tape Charge per 100 access lines	As stated in Appendix PRICING SCHEDULE	Tape Option Not Available for Updates
D. Dial-in Charge per 100 access lines	As stated in Appendix PRICING SCHEDULE	As stated in Appendix PRICING SCHEDULE

SWBT will credit 25% per query and per query transport to LSP for each query that is made against its data, stored in SWBT's LIDB.

APPENDIX LIDB

EXHIBIT III

CALLING CARD AND BILLED NUMBER SCREENING VALIDATION

SWBT will provide the functionality needed to perform the following query/response functions, on a call-by-call basis, for the line/billing records residing in SWBT's LIDB to:

1. Validate a 14-digit billing number where the first 10 digits are a telephone number or a special billing number assigned and the last four digits (PIN) are a security code assignment.
2. Determine whether the billed line automatically rejects, accepts, or requires verification of certain calls billed as collect or third number.
3. Determine whether the billed line is a public telephone number using the Class of Service information in the LIDB.

APPENDIX LIDB

EXHIBIT IV

CNAM SERVICE (GENERIC NAME)

Upon receipt of the line/billing information from LSP, in a format acceptable to SWBT, SWBT will provide the functionality needed to perform the following query/response functions, on a call-by-call basis, for the line/billing records residing in SWBT's LIDB to identify the name associated with the line record.

Calling Name records are limited to fifteen characters. LSP is responsible for providing all name truncations and/or abbreviations needed to limit a calling name to 15 characters. LSP is also responsible for ensuring that its calling name data does not contain obscenities in English or other languages. Upon receipt of Calling Name data, in a format acceptable to SWBT, SWBT will provide the query/response functions, on a call-by-call basis, for the line/billing records residing in SWBT's LIDB to identify the name associated with the line record.

